

4230 U.S. PTO

UTILITY
PATENT APPLICATION
TRANSMITTAL

Attorney Docket No.: GS 159 D1
 First Inventor: Richard A. Blanchard
 Title: POWER SEMICONDUCTOR DEVICE HAVING A VOLTAGE
 SUSTAINING REGION THAT INCLUDES DOPED COLUMNS
 FORMED WITH A SINGLE ION IMPLANTATION STEP
 Express Mail Label No.: ER 638132121 US

(Only for new nonprovisional applications under 37 CFR 1.53(b))

APPLICATION ELEMENTS
(see MPEP chapter 600 concerning
utility patent application contents)

ADDRESS TO:

Mail Stop Patent Application
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

1. ☒ Fee Transmittal Form in duplicate
 (Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status
 See 37 CFR 1.27
3. ☒ Specification Total Pages
 (preferred arrangement set forth below)
 -Descriptive title of the invention
 -Cross Reference to Related Applications
 -Statement Regarding Fed sponsored R&D
 -Reference to sequence listing, a table,
 -Background of the Invention
 -Brief Summary of the Invention
 -Brief Description of the Drawings (if filed)
 -Detailed Description
 -Claim(s)
 -Abstract of the Disclosure
4. ☒ Drawing(s) Total Sheets
5. Oath or Declaration
 a. ☐ Newly executed (original or copy)
 b. ☒ Copy from a prior application (37
 CFR 1.63(d)) (for continuation/ divisional with
 Box 18 completed)
 i. ☐ DELETION OF INVENTOR(S)
 Signed statement attached deleting
 inventor(s) named in the prior application.
 see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet under 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large
 table or Computer Program (Appendix)
8. ☐ Nucleotide and/or Amino Acid Sequence
 (if applicable, all necessary)
 a. ☐ Computer Readable Form (CFR)
 b. ☐ Specification Sequence Listing on:
 i. ☐ CD-ROM or CD-4 (2 copies);
 ii. ☐ or paper
 c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) ☒ Power of Attorney
 Statement (when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☒ IDS ☐ Copies of IDS Citations
13. ☒ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)
15. ☐ Certified Copy of Priority Document
16. ☐ Nonpublication Request under 35 U.S.C.
 122(b)(2)(B)(i). Applicant must attach form
 PTO/SF/35 or its equivalent.
17. ☐ Other: _____

18. IF A CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment

☐ Continuation ☒ Divisional ☐ Continuation-in-Part (CIP) Prior Appl. No.

Prior Appl. information: Examiner: Group/Art Unit:

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied
 under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.
 The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

<input checked="" type="checkbox"/> Customer Number or Bar Code Label	<input type="text" value="27774"/>	or	<input type="checkbox"/> Correspondence address below
Name	Karin L. Williams		
Address	Mayer Fortkort & Williams, PC		
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SIGNATURE	<i>Karin L. Williams</i>	Date	2/2/04

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10/770045

020204

**FEE
TRANSMITTAL**

Patent fees are subject to annual revision

Complete if Known

Application Number	Unassigned
Filing Date	Filed Herewith
First Named Inventor	Richard A. Blanchard
Examiner Name	Unassigned
Group Art Unit	2814
Attorney Docket No.	GS 159 D1

TOTAL AMOUNT OF PAYMENT

(\$) 770

METHOD OF PAYMENT1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:

Deposit Account Number

50-1047

Deposit Account Name

Mayer Fortkort & Williams

☒ Charge Any Additional Fee required under 37 CFR 1.16 and 1.17☐ Applicant claims small entity status. See 37 CFR 1.272. ☐ Payment Enclosed☐ Check ☐ Credit Card ☐ Money Order ☐ Other**FEE CALCULATION****1. BASIC FILING FEE**

Large Fee Code	Large Fee (\$)	Small Fee Code	Small Fee (\$)	Fee Description	Fee Paid
1001	770	2001	385	Utility filing fee	770
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$) 770

2. EXTRA CLAIM FEES

Total Claims	Previously Paid**	Extra Claims	Fee from below	Fee Paid
18	20	0	18	0
Independent Claims	2	3	86	0

Multiple Dependent

280 =

Large Fee Code	Large Fee (\$)	Small Fee Code	Small Fee (\$)	Fee Description
1202	18	2202	9	Claims in excess of 20
1201	88	2201	43	Independent claims in excess of 3
1203	280	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	* Reissue independent claims over original patent
1205	18	2205	9	* Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)

**OR NUMBER PREVIOUSLY PAID, IF GREATER THAN STANDARD ALLOWANCE.

* Or Reissues, see above

SUBMITTED BY

Name (Print/Type)

Karin L. Williams

Signature

Karin L. Williams

Registration No.

36,721

Telephone

908-518-7700

Date

2/2/04

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Fee Code	Large Fee (\$)	Small Fee Code	Small Fee (\$)	Fee Description
1051	130	2051	65	Surcharge - late filing fee or oath
1052	50	2052	25	Surcharge - late Provisional filing
1053	130	2053	130	Non-English specification
147	2520	147	2520	For filing a request for ex parte Reexamination
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action
1805	1840*	1805	1840*	Requesting publication of SIR after Examiner action
1251	110	2251	55	Extension for reply within first month
1252	420	2252	210	Extension for reply within second month
1253	950	2253	475	Extension for reply within third month
1254	1480	2254	740	Extension for reply within fourth month
1255	2010	2255	1005	Extension for reply within fifth month
1401	330	2401	165	Notice of Appeal
1402	330	2402	165	Filing a brief in support of an appeal
1403	280	2403	145	Request for oral hearing
1451	1510	1451	1510	Petition to institute a public use proceeding
1452	1330	2452	665	Petition to revive - unavoidable
1453	1330	2453	665	Petition to revive - unintentional
1501	1330	2501	665	Utility issue fee (or reissue)
1502	480	2502	240	Design issue fee
1503	640	2503	320	Plant issue fee
1460	130	1460	130	Petitions to the Commissioner
1807	50	1807	50	Processing fee under 37 CFR 1.17(a)
1808	180	1808	180	Submission of IIS
8021	40	8021	40	Recording each patent assignment or property (times number of assignments)
1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))
1910	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))
1801	770	2801	385	Request for Continued Examination (RCE)
1802	900	1802	900	Request for expedited examination of a design application

Other fee (specify)

* Reduced by Basic Filing Fee paid

SUBTOTAL (3) (\$)

Complete (if applicable)

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)Applicant(s): **Richard A. Blanchard**

Docket No.

GS 159 D1Serial No.
UnassignedFiling Date
Filed HerewithExaminer
UnassignedGroup Art Unit
2814Invention: **POWER SEMICONDUCTOR DEVICE HAVING A VOLTAGE SUSTAINING REGION THAT INCLUDES DOPED COLUMNS FORMED WITH A SINGLE ION IMPLANTATION STEP**

I hereby certify that the following correspondence:

New U.S. Divisional Patent Application*(Identify type of correspondence)*

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

2/2/04
*(Date)*Marjorie Scariati*(Typed or Printed Name of Person Mailing Correspondence)*
*(Signature of Person Mailing Correspondence)*ER 638132121 US*("Express Mail" Mailing Label Number)***Note: Each paper must have its own certificate of mailing.**